

WHAT IS CLAIMED IS:

1. An orthotic device for promoting supination and pronation comprising:

a forearm enclosure adapted to substantially wrap around a forearm;

a forearm support member adapted to slidably receive the forearm enclosure wherein the support member wraps partially around the forearm enclosure;

a post mounted on the forearm enclosure;

an anchor mounted on the support member; and

a tensioning member connected on one end to the anchor and on the other end to the post, wherein a rotational force of supination or pronation will be created on the forearm enclosure depending on the direction which the tensioning member is extended from the anchor to the post.

2. An orthotic device as described in claim 1, further comprising a plurality of posts mounted at different locations on the forearm enclosure.

3. An orthotic device as described in claim 1, wherein the tensioning member is comprised of an elastic material.

4. An orthotic device as described in claim 1, wherein the tensioning member is comprised of an inelastic material.

5. An orthotic device as described in claim 1, wherein the tensioning member has an adjustable length.

6. An orthotic device as described in claim 1, further comprising an upper arm support member connected on one end to the forearm support member and adapted to substantially wrap around and support an upper arm.

7. An orthotic device as described in claim 6, wherein the upper arm support member is hingedly connected to the forearm support member.

8. An orthotic device as described in claim 6, wherein the upper arm support member is fixedly connected to the forearm support member at a predetermined angle.

9. An orthotic device as described in claim 8, wherein the predetermined angle is substantially 90.

10. An orthotic device as described in claim 7, wherein the angle of connection of the upper arm support member and the forearm support member is variable.

11. An orthotic device for promoting supination and pronation comprising:

a forearm enclosure adapted to substantially wrap around a forearm;
a forearm support member adapted to slidably receive the forearm enclosure wherein the support member wraps partially around the cast;
tensioning means having a first and a second end; and
means for attaching the tensioning means on the first end to the forearm enclosure and on the second end to the forearm support member, wherein a rotational force of supination or pronation will be created on the forearm enclosure depending on the direction which the tensioning means is attached to the forearm support member and the forearm enclosure.

12. A kit for assembling an orthotic device comprising:
a forearm enclosure adapted to substantially wrap around a forearm;
a forearm support member adapted to slidably receive the forearm enclosure, wherein the support member is adapted to wrap partially around the forearm enclosure;

a post mountable on the forearm enclosure;
an anchor mountable on the support member; and
a tensioning member connectable on one end to the anchor and on the other end to the post.